Abstracts

Optically Controlled Millimeter Wave Phase Shifter in a Metallic Waveguide

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Analytical and experimental results of an optically controlled millimeter wave phase shifter enclosed in a metallic waveguide are presented. The analysis predicts that large phase shifts and low attenuation can be achieved with this configuration. An experimental study of the feasibility of inducing phase shift in a 94 GHz signal propagating in a metallic waveguide inhomogeneously filled with a silicon slab, is reported.

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